

Fig. 1

| POSITION / ADDRESS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|--------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| 42                 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1  | 0  | 0  | 0  | 1  | 0  | 1  | 1  | 0  | 0  | 1  |
| 44                 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1  | 0  | 0  | 0  | 1  | 0  | 1  | 1  | 1  | 0  | 0  |
| 46                 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1  | 0  | 0  | 0  | 1  | 1  | 0  | 0  | 1  | 0  | 0  |
| 48                 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0  | 0  | 0  | 0  | 1  | 1  | 1  | 0  | 0  | 0  | 0  |

Fig. 2

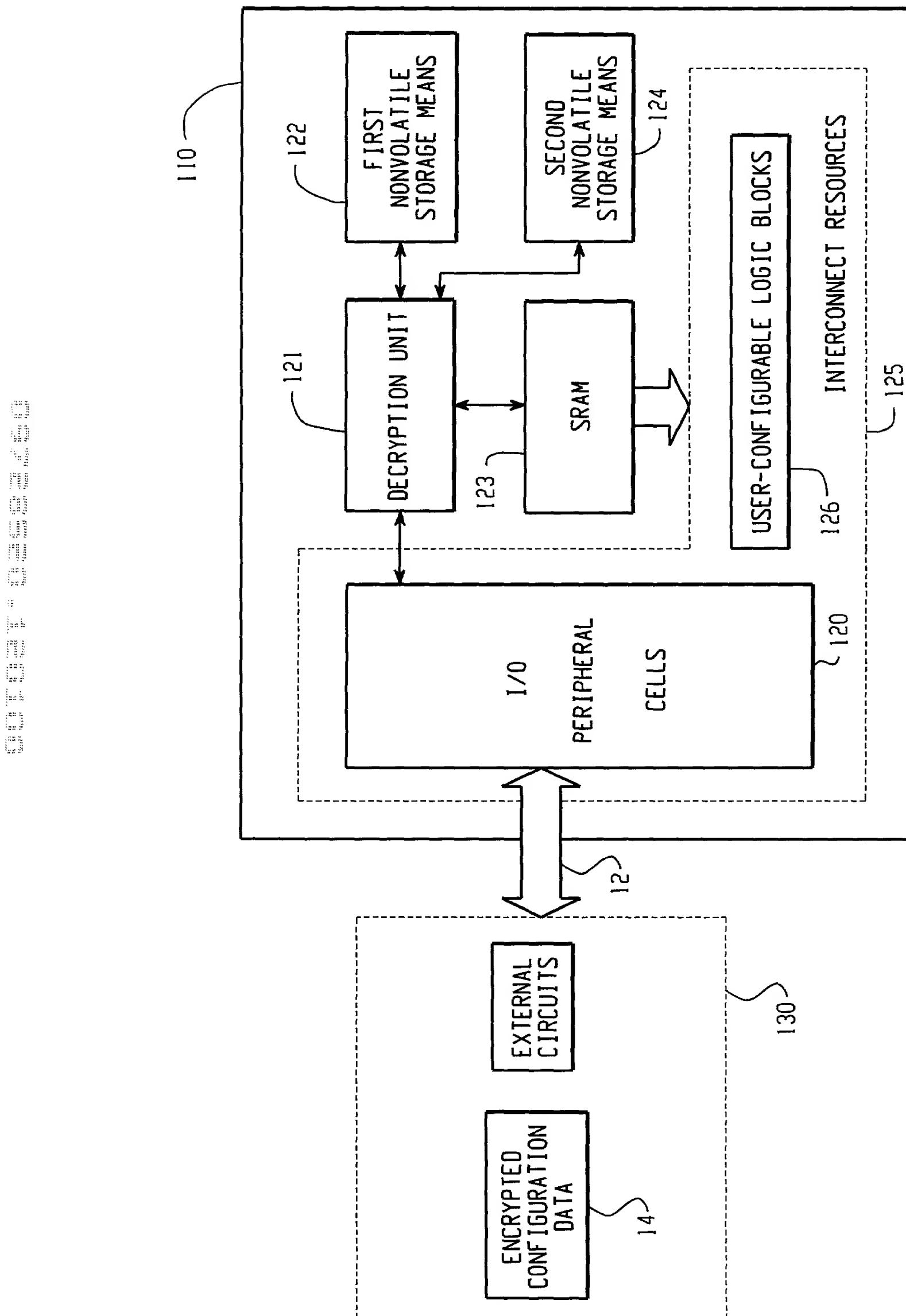


Fig. 3

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| POSITION / ADDRESS | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15       | 16       | 17       | 18 | 19 | 20 |
|--------------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----------|----------|----------|----|----|----|
| ROW (1)            | 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0  | 0  | 1  | 0  | 1  | 0        | 1        | 1        | 0  | 0  | 1  |
| ROW (2)            | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0  | 0  | 0  | 0  | 1  | $m_{14}$ | $m_{15}$ | $m_{16}$ | 1  | 0  | 0  |
| ROW (3)            | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0  | 0  | 0  | 0  | 0  | 1        | 1        | 1        | 0  | 0  | 0  |
| ROW (4)            | X | X | X | X | X | X | X | X | X | X  | X  | X  | X  | X  | 0        | 1        | 1        | X  | X  | X  |

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KEYS:

ROW (1): ORIGINAL CONFIGURATION-DATA SEQUENCE

ROW (2): ENCRYPTED CONFIGURATION-DATA SEQUENCE:  $m_{14} m_{15} m_{16} \in \{000, 001, 010, 100, 101, 110, 111\}$

ROW (3): ADDRESS INFORMATION STORED IN THE FIRST NONVOLATILE STORAGE MEANS 122

ROW (4): OVERWRITE-DATA INFORMATION STORED IN THE SECOND NONVOLATILE STORAGE MEANS 124; X=DON'T CARE.

POSITIONS 7 AND 14-16: BITS TO BE ENCRYPTED

Fig. 4

210  
223  
226  
225  
220  
12  
14  
230

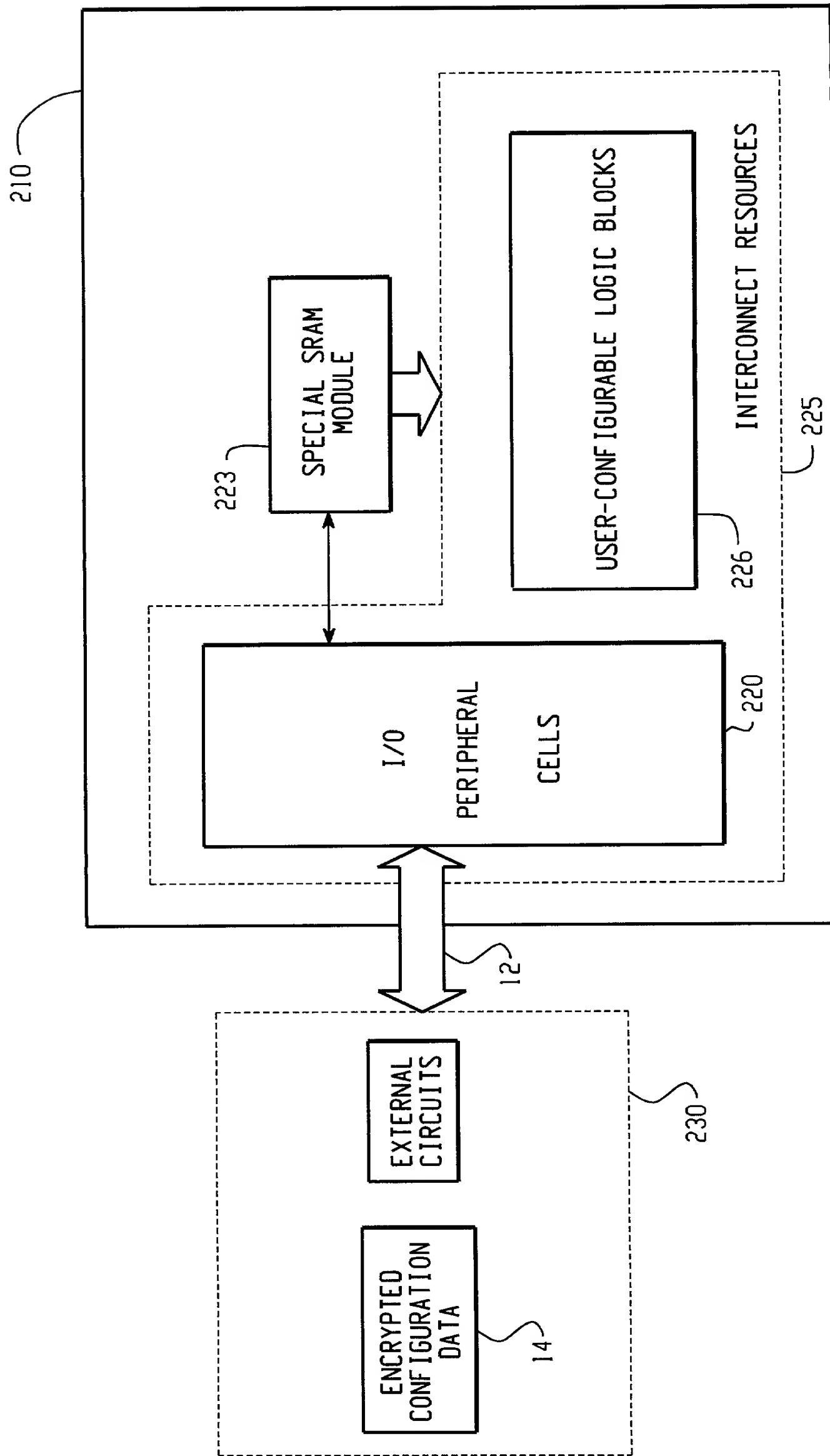


Fig. 5

| POSITION/<br>ADDRESS | 1       | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15 | 16 | 17 | 18  | 19  | 20 |
|----------------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|-----|----|
| 42                   | ROW (1) | 1   | 1   | 1   | 0   | 1   | 0   | 1   | 1   | 1   | 0   | 0   | 0   | 1   | 0  | 1  | 1  | 0   | 0   | 1  |
| 44                   | ROW (1) | 1   | 1   | 1   | 0   | 1   | 0   | 1   | 1   | 1   | 0   | 0   | 0   | 1   | 0  | 14 | 15 | 16  | 1   | 0  |
| 46                   | ROW (1) | 1   | 1   | 1   | 0   | 1   | 0   | 0   | 1   | 1   | 0   | 0   | 0   | 1   | 14 | 15 | 16 | 1   | 0   |    |
| 56                   | ROW (1) | R/W | @1 | @0 | @1 | R/W | R/W |    |

KEYS:  
 ROW (1): ORIGINAL CONFIGURATION-DATA SEQUENCE  
 ROW (2): ENCRYPTED CONFIGURATION-DATA SEQUENCE:  $m_{14} \ m_{15} \ m_{16} \in \{000, 001, 010, 100, 101, 110, 111\}$   
 ROW (4): READ/WRITE STATUS OF THE SPECIAL SRAM MODULE 223; R/W=READ-AND-WRITE POSSIBLE; @=STICKING AT  
 POSITIONS 7 AND 14-16: BITS TO BE ENCRYPTED

Fig. 6

7/7

|     |     |
|-----|-----|
| 7   | ~60 |
| 14  | ~60 |
| 15  | ~60 |
| 16  | ~62 |
| EOL | ~62 |
| :   |     |
| :   |     |
| :   |     |

Fig. 7

|         |     |
|---------|-----|
| 22      | ~60 |
| (7, 1)  | ~60 |
| (14, 0) | ~60 |
| (15, 1) | ~60 |
| (16, 1) | ~62 |
| EOL     | ~62 |
| :       |     |
| :       |     |
| :       |     |

Fig. 8

|                       |     |
|-----------------------|-----|
| 22                    | ~60 |
| (7, MODIFICATION, x)  | ~60 |
| (14, OVERWRITE, 0)    | ~60 |
| (15, MODIFICATION, x) | ~60 |
| (16, OVERWRITE, 1)    | ~62 |
| EOL                   | ~62 |
| :                     |     |
| :                     |     |
| :                     |     |

Fig. 9